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1 [Technique for automatically correcting words in text](#)

Karen Kukich

 December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

 Full text available: [pdf\(6.23 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

2 [On-line new event detection and tracking](#)

James Allan, Ron Papka, Victor Lavrenko

 August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(1.32 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [A cost-benefit decision model: analysis, comparison and selection of data management](#)

Stanley Y. W. Su, Jozo Dujmovic, D. S. Batory, S. B. Navathe, Richard Elnicki

 September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3

 Full text available: [pdf\(3.29 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a general cost-benefit decision model that is applicable to the evaluation, comparison, and selection of alternative products with a multiplicity of features, such as complex computer systems. The application of this model is explained and illustrated using the selection of data management systems as an example. The model has

the following features: (1) it is mathematically based on an extended continuous logic and a theory of complex criteria; (2) the decisi ...

4 Indexing music and Chinese text: Looking for new, not known music only: music retrieval by melody style

Fang-Fei Kuo, Man-Kwan Shan

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(526.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the growth of digital music, content-based music retrieval (CBMR) has attracted increasingly attention. For most CBMR systems, the task is to return music objects similar to query in syntactic properties such as pitch and interval contour sequence. These approaches provide users the capability to look for music that has been heard. However, sometimes, listeners are looking, not for music they have been known, but for music that is new to them. Moreover, people sometimes want to retrieve mus ...

Keywords: content-based music retrieval, music classification, music style mining, query by melody style

5 TextTiling: segmenting text into multi-paragraph subtopic passages

Marti A. Hearst

March 1997 **Computational Linguistics**, Volume 23 Issue 1


Full text available:  pdf(2.46 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, or subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occurrence and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph subtopic segmentation should be useful for many text analysis tasks, including information retrieval and ...

6 Session 6: Evaluating expertise recommendations

David W. McDonald

September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work**

Full text available:  pdf(317.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Finding a person who has the expertise to solve a specific problem is an important application of recommender systems to a difficult organizational problem. Prior systems have made attempts to implement solutions to this problem, but few systems have undergone systematic user evaluation. This work describes a systematic evaluation of the Expertise Recommender (ER), a system that recommends people who are likely to have expertise in a specific problem. ER and the organizational context for which ...

Keywords: CSCW, computer-supported cooperative work, expertise location, recommendation systems, user evaluation

7 An algorithm for automated rating of reviewers

Tracy Riggs, Robert Wilensky

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**


Full text available:  pdf(139.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

The current system for scholarly information dissemination may be amenable to significant improvement. In particular, going from the current system of journal publication to one of self-distributed documents offers significant cost and timeliness advantages. A major concern with such alternatives is how to provide the value currently afforded by the peer review system. Here we propose a mechanism that could plausibly supply such value. In the peer review system, papers are judged ...

8 A personal news agent that talks, learns and explains

Daniel Billsus, Michael J. Pazzani

April 1999 **Proceedings of the third annual conference on Autonomous Agents**Full text available:  [pdf \(1.06 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: human-computer interaction, information agents, machine learning, user modeling

9 A learning agent for wireless news access

Daniel Billsus, Michael J. Pazzani, James Chen

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**Full text available:  [pdf \(875.52 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a user interface for wireless information devices, specifically designed to facilitate learning about users' individual interests in daily news stories. User feedback is collected unobtrusively to form the basis for a content-based machine learning algorithm. As a result, the described system can adapt to users' individual interests, reduce the amount of information that needs to be transmitted, and help users access relevant information with minimal effort.

Keywords: intelligent information access, machine learning, news, user modeling, wireless

10 Detecting stories: Towards automated story analysis using participatory design

Harry Halpin, Johanna D. Moore, Judy Robertson

October 2004 **Proceedings of the 1st ACM workshop on Story representation, mechanism and context**Full text available:  [pdf \(292.83 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Involving a school teacher in the development of the intelligent writing tutor StoryStation allowed progress to be made on the problem of story classification. An experienced Scottish school-teacher developed a rating scale and guidelines for StoryStation's automated plot analysis agent for the story rewriting task. In this task, pupils rewrite a story in their own words, allowing them to devote their full attention to improving their writing technique instead of creating a new plot. If the pupil ...

Keywords: computational linguistics, participatory design, plot analysis, story classification

11A multi-national study of reading and tracing skills in novice programmers

Raymond Lister, Elizabeth S. Adams, Sue Fitzgerald, William Fone, John Hamer, Morten

Lindholm, Robert McCartney, Jan Erik Moström, Kate Sanders, Otto Seppälä, Beth Simon, Lynda Thomas
 June 2004 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education**, Volume 36 Issue 4

Full text available:  [pdf\(410.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

A study by a ITiCSE 2001 working group ("the McCracken Group") established that many students do not know how to program at the conclusion of their introductory courses. A popular explanation for this incapacity is that the students lack the ability to problem-solve. That is, they lack the ability to take a problem description, decompose it into sub-problems and implement them, then assemble the pieces into a complete solution. An alternative explanation is that many students have a fragile gras ...

12 Testing for software reliability

J. R. Brown, M. Lipow

April 1975 **ACM SIGPLAN Notices , Proceedings of the international conference on Reliable software**, Volume 10 Issue 6

Full text available:  [pdf\(810.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents a formulation of a novel methodology for evaluation of testing in support of operational reliability assessment and prediction. The methodology features an incremental evaluation of the representativeness of a set of development and validation test cases together with definition of additional test cases to enhance those qualities. If test cases are derived in typical fashion (i.e., to find and remove bugs, to investigate software performance under off-nominal ...

Keywords: Confidence, Estimation of operational software reliability, Expected operational usage, Functional testing, Input data space, Input space partition, Logical paths, Operational profile probability distribution, Program testing coverage, Representative testing, Software reliability, Structural testing, Testing, X2

13 An approach to computer personnel evaluation

Paul D. Oyer

June 1969 **Proceedings of the seventh annual conference on SIGCPR**


Full text available:  [pdf\(498.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An extensive study of the capabilities and proficiency of the staff of programmers and computer systems analysts was recently conducted for a large financial company. The purpose of the study was to provide company management with a detailed analysis of the skill levels and proficiency of the current staff and to make specific recommendations for individual and group training to enable the company to achieve its computer plans and objectives. The steps taken in the course of the ...

14 Values, personal information privacy, and regulatory approaches

Sandra J. Milberg, Sandra J. Burke, H. Jeff Smith, Ernest A. Kallman

December 1995 **Communications of the ACM**, Volume 38 Issue 12

Full text available:  [pdf\(249.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The relationships among nationality, cultural values, personal information privacy concerns, and information privacy regulation are examined in this article.

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